

13.7.2 TEST LEVEL SELECTION CRITERIA

The Test Level required for a bridge site can be determined from the following table.

TEST LEVEL	HIGHWAY TYPE	DESIGN SPEED	TRAFFIC TYPE	CRASH TEST VEHICLE
1	Local Street	<30 mph	Low Volume	Small Automobile, Pickup Truck
2	Collector	<45 mph	Small Number of Heavy Vehicles	Small Automobile, Pickup Truck
3	Arterial	>50 mph	Very Low Mixture of Heavy Vehicles	Small Automobile, Pickup Truck
4	Freeway, Expressway, Interstate	>50 mph	Mixture of Trucks & Heavy Vehicles	Small Automobile, Pickup Truck, Single-Unit Van Truck
5	Freeway, Expressway, Interstate	>50 mph	Higher Ratio of Heavy Vehicles	Small Automobile, Pickup Truck, Van-Type Tractor-Trailer
6	Freeways	>50 mph	Higher Ratio of Tanker-Type Trucks	Small Automobile, Pickup Truck, Tractor-Tanker Trailer

Test Level 5 & 6 railings should be considered when a high accident rate is expected because of unfavorable site conditions and when severe consequences from rollover or penetration beyond the barrier are expected.

Unfavorable site conditions include but are not limited to the following:

- Reduced radius of curvature (Degree of curvature > 3°)
- Steep downgrades on curvature (Grade > 3%)
- Variable cross slopes
- Adverse weather conditions.

Test Levels 1-4 in the Table assume favorable site conditions. Increase one test level when site conditions are unfavorable.